

How Researchers Are Using MT8000A for 6G Research

Radio Communication Test Station MT8000A

Radio Communication Test Station MT8000A is used as a common test platform supporting diverse 6G research, from shared research infrastructure and FR3 to AI and standardization-oriented evaluation.

6G Research Applications

Advancing 6G Research through Comprehensive Verification



RAPA × Anritsu

The Korea Radio Promotion Association (RAPA) established the Anritsu 5G-Advanced & 6G Test Lab at the Song-do IoT Technical Support Center in Incheon, Korea. The lab is equipped with MT8000A featuring frequency extension for 6G, along with a Wi-Fi 7 tester and vector network analyzers. It provides a comprehensive environment for advancing next-generation communications through verification of candidate frequency bands for 5G-Advanced and 6G, including FR3.



Optimizing Multi-Antenna Communication Performance with AI

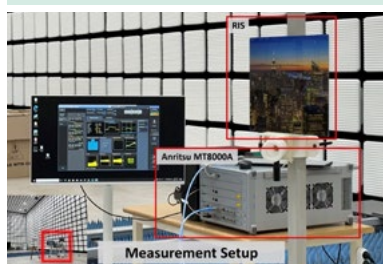


SK Telecom × POSTECH

SK Telecom and POSTECH verified real-time AI technology that optimizes interference arising when the number of smartphone antennas is increased from four to eight. Evaluation using MT8000A as the base station simulator confirmed a significant improvement in data transmission speed under the same conditions as a conventional smartphone. MT8000A is used as a test environment supporting next-generation wireless research that combines AI and multi-antenna technologies.



OTA Evaluation of RIS Performance in FR3



LG U+ × CORNING × POSTECH × RAPA

LG U+, POSTECH, and their partners evaluated the performance of a RIS optimized for the 7 to 14 GHz upper mid-band. The RIS was placed in a test chamber and evaluated over the air using MT8000A for FR3 signal transmission, reception, and measurement. The evaluation verified RIS performance in an FR3 environment. MT8000A provides the test environment required for FR3 RIS research and serves as a platform supporting OTA verification.



FR3 Research and Development Starts Here

FR3 research is expanding from initial RF evaluation to device and system evaluation, as well as standardization-oriented verification. MT8000A supports evolving 6G research as a common platform that adds FR3 signal generation, reception, and measurement while retaining existing test capabilities.



Radio Communication Test Station MT8000A

A Simpler Path to FR3: Upgrade Your Existing MT8000A

Add the FR3-capable MT8000A-041 hardware to support FR3 evaluation while continuing to use your existing MT8000A environment. There is no need to replace the entire MT8000A-class tester.

FR3 Configurations for Your Research: Start with the Capabilities You Need

Start with a lower-cost FR3 configuration using a single MT8000A-041, then expand the system as research requirements evolve. For organizations planning future FR3 research, investing in MT8000A-041 can also provide a long-term research platform.

Extend Today’s Investment into Future 6G Research

MT8000A-041 supports a wide range of applications, from current FR1 and FR2 evaluation to future FR3 research and verification, enabling long-term use. The platform preserves your current test environment while providing a path to future research themes.

FR3 Solution Overview

Platform	FR1 FR3 FR2
FR3 Coverage	7.125 GHz to 16 GHz
Initial Evaluation	Non-signaling RF

* Contact Anritsu for current application support and planned updates for the FR3 frequency range.



Learn more (Product page)



Web 6G Technology Solutions



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